

Severe Weather Today

June 22, 2016



National Weather Service

Chicago/Romeoville, IL

<http://www.weather.gov/chicago>



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Created: 6/22/2016 4:55 AM Central



Weather Hazards



What	Where	Timing	Impacts	Confidence
Severe Thunderstorms	This morning: West of Interstate 39 Daytime Weds: Area-Wide	Scattered Heavy Rain/Hail – AM Numerous/Widespread 4 PM – 12 AM	AM: Heavy Rain/Hail All Severe Threats Afternoon/Evening	Medium-High
Flooding	Northern IL & Northwest IN	At times in the morning and again in the afternoon	Minor flooding on area rivers & streams, urban flooding. Localized flash flooding	Medium



Today's Threat Timeline



6AM

1 PM

4 PM

12AM

**Showers with
Embedded
Thunderstorms
Isolated Severe Threat**

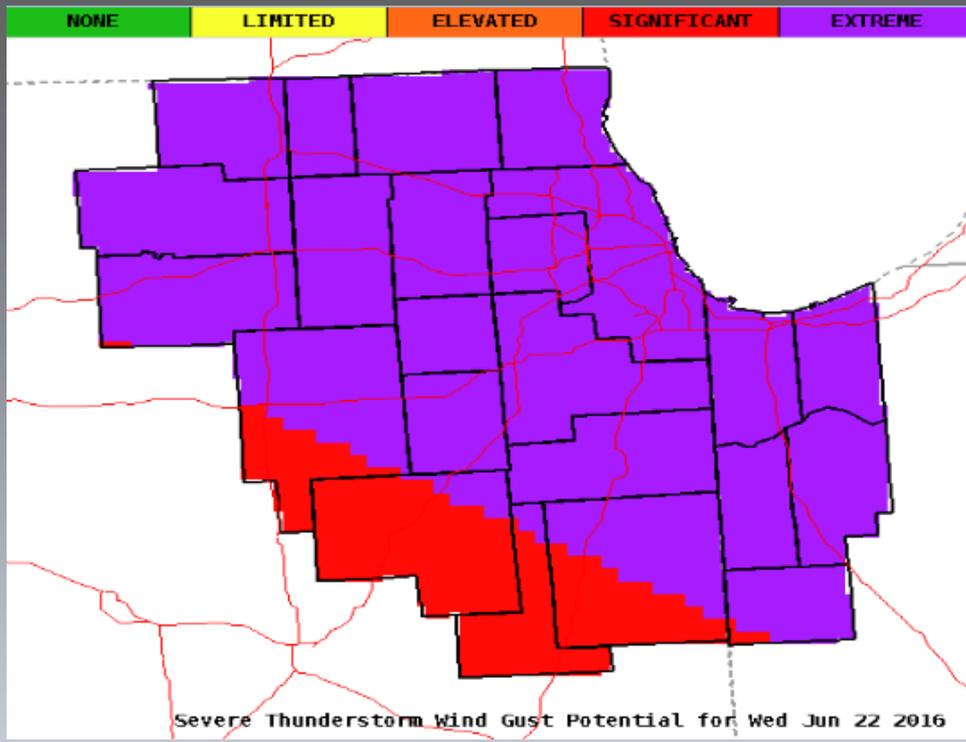
**Scattered
Thunderstorms
Isolated Severe
Threat**

**Highest
Severe Storm Potential**

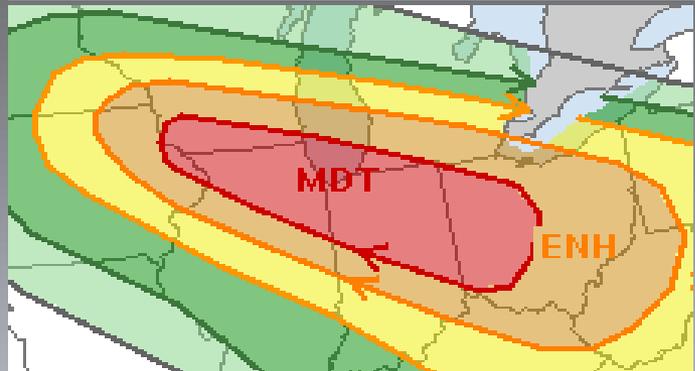
***Main Hazards:
Torrential Rain and Isolated Flash Flooding
Isolated Large Hail
Frequent Cloud to Ground Lightning***

***All Hazards Possible:
Significant severe
possible
Flash Flooding***

Thunderstorm Wind Damage Risk



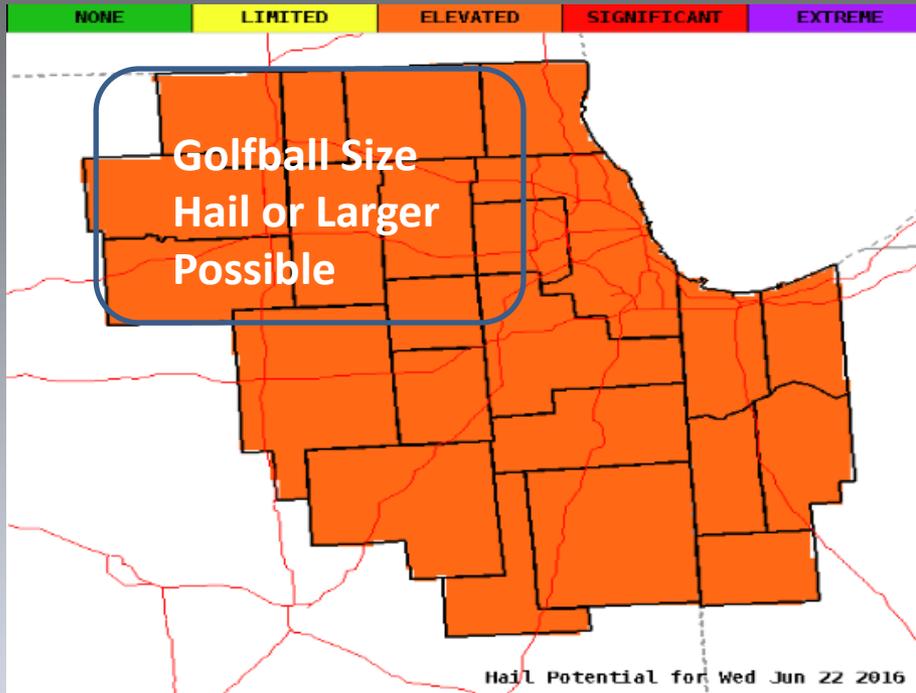
Enhanced/ Moderate Risk for Severe Thunderstorms



Risk Level	Definition
None	No thunderstorm wind risk.
Limited	Risk for sub-severe wind gusts (less than 58 mph) or Probability of severe wind gusts (58 mph or greater) within 25 miles of a point: Less than 15%
Elevated	Probability of severe wind gusts (58 mph or greater) within 25 miles of a point: Equal to or greater than 15%
Significant	Probability of severe wind gusts (58 mph or greater) within 25 miles of a point: Equal to or greater than 30%
Extreme	Probability of severe wind gusts (58 mph or greater) within 25 miles of a point: Equal to or greater than 45%

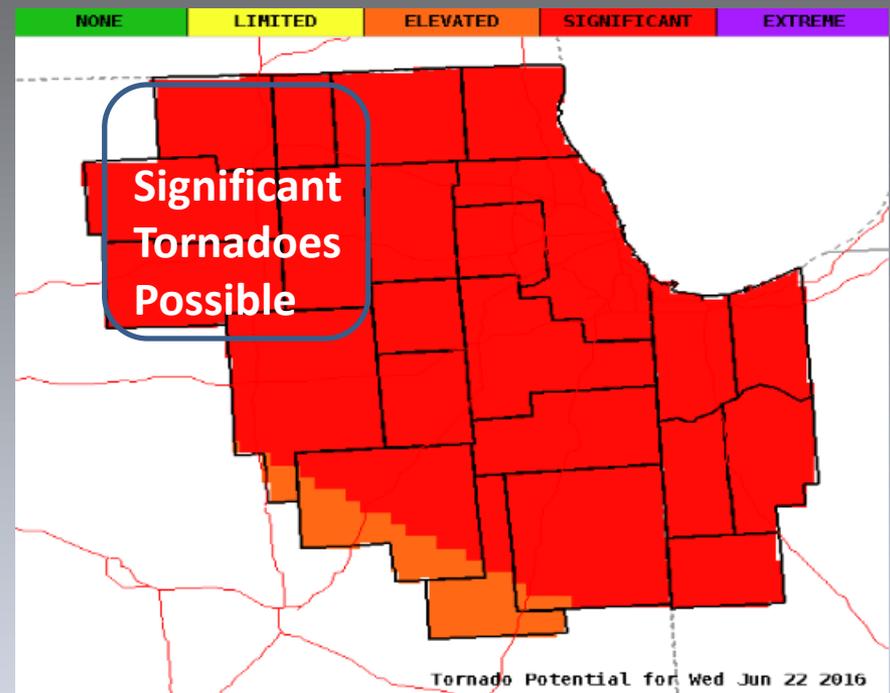
3 - ENHANCED (ENH)	4 - MODERATE (MDT)
Numerous severe storms possible	Widespread severe storms likely
More persistent and/or widespread, a few intense	Long-lived, widespread and intense
<ul style="list-style-type: none"> A few tornadoes Several reports of wind damage Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> Strong tornadoes Widespread wind damage Destructive hail, 2" +

HAIL



Risk Level	Definition
	None No risk of hail.
	Limited Risk of sub-severe hail (less than 1") or Probability of severe hail (1" or greater) within 25 miles of a point: less than 15%
	Elevated Probability of severe hail (1" or greater) within 25 miles of a point: Equal to or greater than 15%
	Significant Probability of severe hail (1" or greater) within 25 miles of a point: Equal to or greater than 30%
	Extreme Probability of severe hail (1" or greater) within 25 miles of a point: Equal to or greater than 45%

TORNADO



Risk Level	Definition
	None No tornado risk.
	Limited Probability of a tornado within 25 miles of a point: less than 5 percent.
	Elevated Probability of a tornado within 25 miles of a point: greater than or equal to 5 percent.
	Significant Probability of a tornado within 25 miles of a point: greater than or equal to 10 percent.
	Extreme Probability of a tornado within 25 miles of a point: greater than or equal to 30 percent.



Threat Level

Significant Tornadoes (EF2 and Greater)



Low

High

Tornadoes (Less than EF2)



Low

High

Damaging Winds (≥ 58 MPH)



Low

High

Large Hail (≥ 1 inch diameter)



Low

High

Flash Flooding

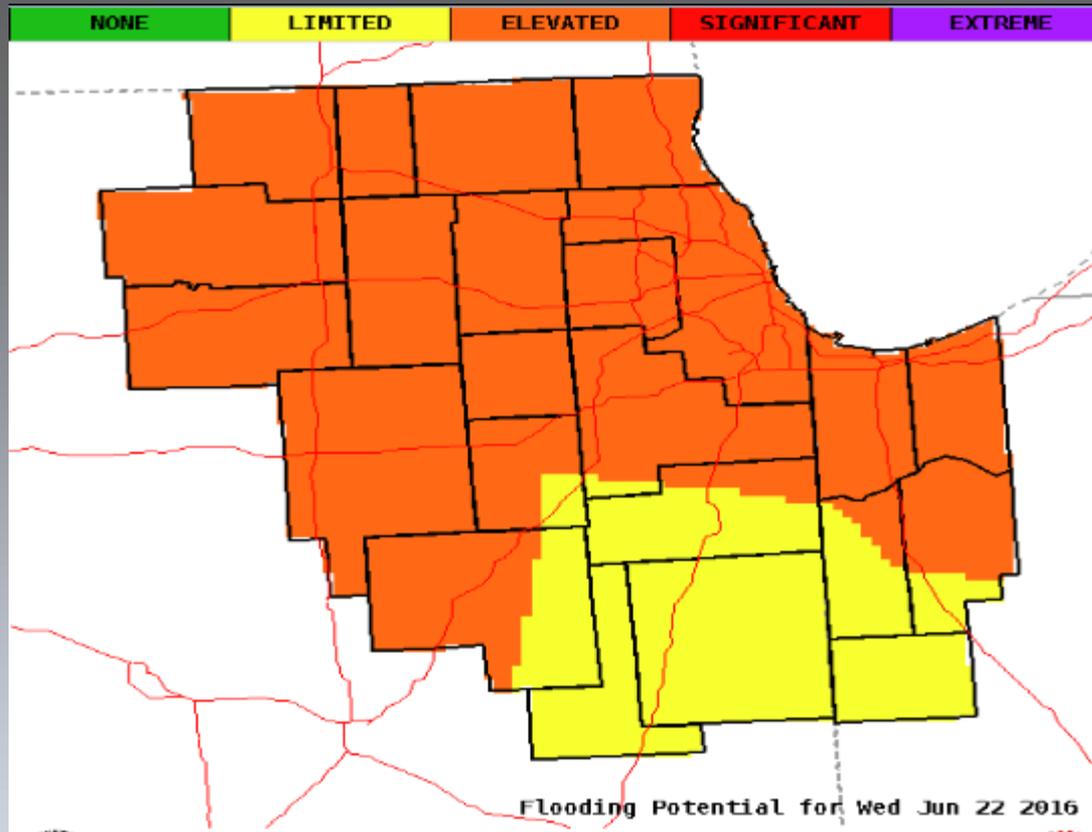


Low

High



Wednesday's Flooding Risk



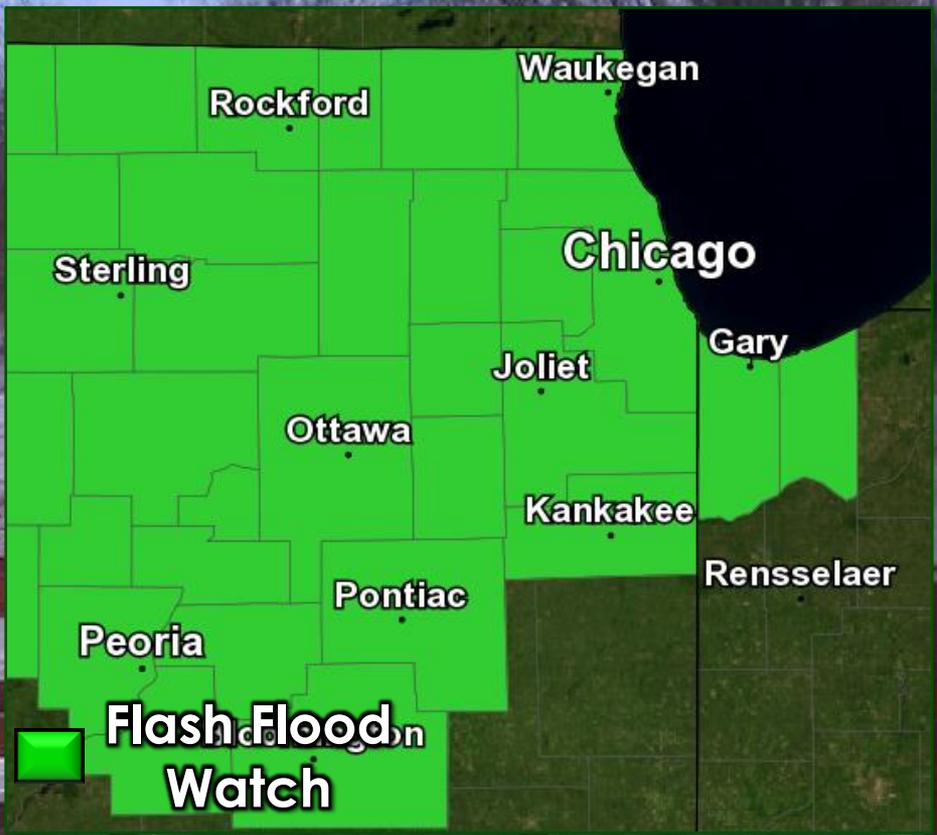
Risk Level	Definition
 None	No Flooding risk.
 Limited	Risk of <u>localized</u> flash flooding of small streams, and <u>minor</u> flooding of poor drainage or urban areas.
 Elevated	Risk of flash flooding of several roads and small streams.
 Significant	Risk of flash flooding of <u>numerous</u> roads and small streams.
 Extreme	Risk of <u>widespread</u> flash flooding of roads and small streams.



Chicago

FLASH FLOOD WATCH

In Effect Early Wednesday AM Through Wednesday Night



A Flash Flood Watch Means...

- **BE PREPARED.** Flash flooding is **possible** in the watch area.
- Check for forecast updates.
- Know which roads are most likely to flood. Identify alternate routes.
- **Know where to go if you need to head to higher ground.**
- **Have multiple ways to receive flood alerts if any are issued for your area.**



Flash Flood Watch Forecast Points

- Multiple rounds of t-storms capable of producing torrential rainfall possible Wed. AM thru Wed. night

Flash Flood Watch Potential Impacts

Roads may become impassable & cars may get stuck. Fast moving water may knock you off your feet & sweep cars away.



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weather.gov/Chicago

6/22/2016
4:55 AM Central



Important Notes



- **Uncertainty**: Impact of this morning's thunderstorms and potential for greatest severe threat to be shifted south some. These details will become clearer early this afternoon.
- **Storm Mode**:
 - Initial discrete supercell development appears probable in the mid-late afternoon across north central Illinois.
 - This is where highest potential for a few tornadoes, possibly strong, will likely be, unless storm mode remains discrete longer than expected.
 - As storms track east-southeast, they are expected to grow upscale into a MCS (linear complex of storms).
 - Again uncertainty on how soon this will occur. High end damaging winds and embedded tornadoes will remain possible with MCS.



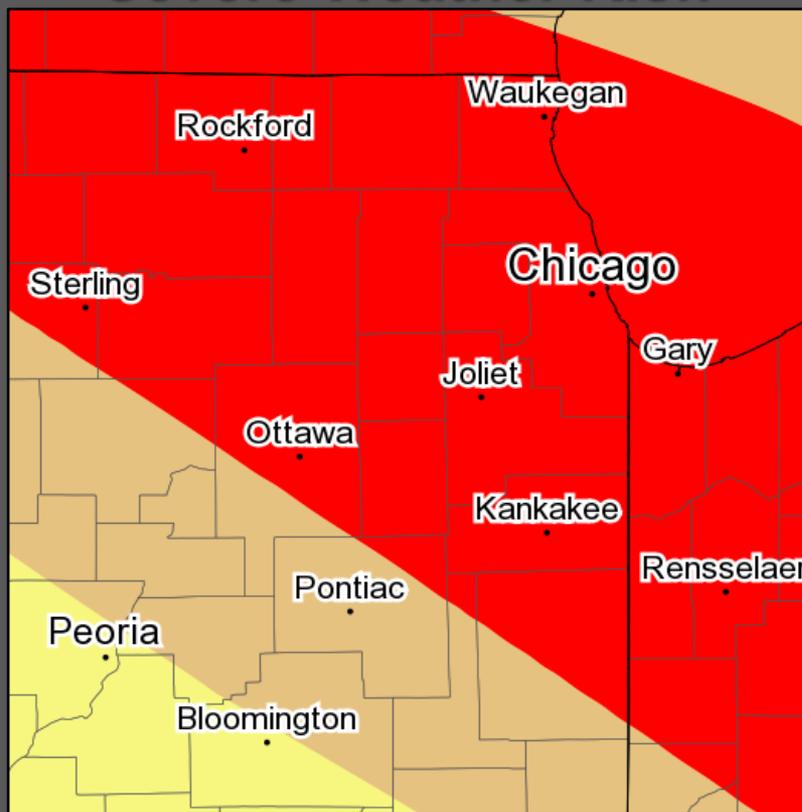
Key Message

- Urge your family and friends to have their severe weather safety plan in place and know where to take shelter if necessary. Have multiple ways to receive warnings.
- Raise awareness, not panic.



ALERT: Severe Weather Likely Today

Severe Weather Risk



GENERAL THUNDERSTORMS	MARGINAL RISK	SLIGHT RISK	ENHANCED RISK	MODERATE RISK	HIGH RISK
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected

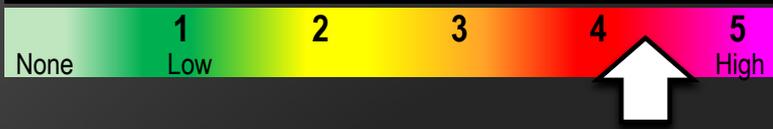
**Have multiple ways to receive warnings!
Have a plan. Be ready to shelter if needed.**

Potential Hazards: Threat Level

Tornadoes Strong tornado possible



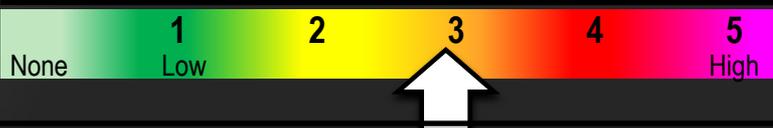
Wind Up to 80+ mph



Hail Up to golf ball size or larger



Flash Flood Flood-prone areas



Important Note: Ingredients *could* come together for significant severe weather event. Small scale details will alter magnitude & area of greatest impacts.

When: Round 1: mainly hail, heavy rain threat in morning
Round 2: late afternoon & evening, significant damaging winds, tornadoes, hail all possible



NWS Chicago





Additional Information



Storm Prediction Center

<http://www.spc.noaa.gov/>

Local Text Hazardous Weather Outlook

<http://forecast.weather.gov/product.php?site=NWS&issuedby=LOT&product=HWO>

Graphical Hazardous Weather Outlook

<http://www.weather.gov/lot/ehwo>

NWS Severe Weather Safety Tips

<http://www.weather.gov/lot/severeprep>

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